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Ulyanova, T.P.

PHASE I BOOK EXPLOITATION SOV/2925

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Bakı. Azərbaycanlı mədən-istidlək elmi-institut neft-
perəbatçılığının gəriyabənnəti ləsmi V. V. Kuryanov
Şəhərşəhər, vyp. 2. (Collection of Works, No. 2) Bakı,
Azerbaidzhan, 1958. 373 p. Errata slip inserted.
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Candidate of Chemical Sciences, V.S. Oltreyev; Doctor of Chemical
Sciences, A.M. Küliyev; Doctor of Chemical Sciences, N.M. İmudov,
Candidate of Technical Sciences, V.Ya. Məsiyev; Candidate of
Technical Sciences, P.O. Suleymanova; Candidate of Technical
Sciences, A.M. Ləvshina; Candidate of Chemical Sciences, N.B. Al'
Chemical Sciences, A.M. Ləvshina; Candidate of Chemical Sciences, I.M. Orudzhev; Candidate
of Technical Sciences, N.M. Melik-Zade; Candidate of Chemical
Sciences.

PURPOSE: This collection of articles is intended for chemical
engineers, technicians, and refiners concerned with advanced
methods of petroleum conversion.

COVERAGE: The collection presents an analysis of different
types of crudes extracted in Azerbaijan and of the products
recovered from them, such as through petroleum conversion
processes. The dewatting, deoiling, and demulsifying of crudes
is described and the suitability of these crudes for catalytic
recovery of diesel fuels is discussed. Results of catalytic
cracking performed over a fluidized bed synthetic catalyst
and the chemical composition produced by two-stage
catalytic cracking are analyzed. Activation in hyper-
baric oxygen as well as catalytic circulation and
activation of catalysts are reviewed. Various lube oil additives
and flow systems are reviewed. Various types of oil and carbon black
are outlined. References accompany individual articles.

SOV/2925

Collection of Works, No. 2
Orudzhev, R.R., A.M. İmudov, Z.E. Alyev, and B.A. Pınaker;
Study of the Decreased Adsorption Capacity of Activated Charcoal
Caused by the Polymerization of Hydrocarbons on Its Surface 325

Afionov, A.B.; Study of the Moisture Capacity of Carbon Black
Depending on the Degree of Oxidation 346

Afionov, A.B.; Determination of the Elemental Composition of
Carbon Black on the Basis of the Quantity and Composition of
Volatile Substances 355

Gürcüyev, V.L., M. Məlik-Zade, Z.E. Alyev, B.A. Pınaker, and
T.F. Uysalova; Purification of Oil Produced From Gas With High Content
of Volatiles With Liquid Hydrocarbons 362

AVAILABLE: Library of Comptens (TPĘGO, A1B33)

TM/4b
1-24-40

Card 8/8

SMIRNOV, V.N.; GRISHKUN, Ye.V.; USYNINA, V.A.

Fermentation and respiration intensity of soils under forests
and in plowlands. Pochvovedenie no.1:59-73 Ja '62.
(MIRA 17:1)

1. Povolzhskiy lesotekhnicheskiy institut imeni M. Gor'kogo.

USYNINA, Ye.A.

Introducing multipurpose attachments with interchangeable parts.
Mashinostroitel' no.7:42-43 Jl '60. (MIRA 13:7)
(Machine tools—Attachments)

USYSHKIN, S.I.; ALEKSANDROV, V.I.; KOROTKOVA, A.V., red. izd-va;
VORONINA, R.K., tekhn. red.

[Technical mechanics; a methodological textbook] Tekhnicheskaya mekhanika; metodicheskoe posobie. Programma, zadaniia dlia kontrol'nykh rabot s kratkimi metodicheskimi ukazaniiami po ikh vypolneniiu; dlia uchashchikhsia nemashinostroitel'nykh spetsial'nostei zaochnykh tekhnikumov (na baze 7 i 10 klassov).
Moskva, Vysshiaia shkola, 1962. 150 p. (MIRA 16:5)

1. Russia (1923- U.S.S.R.) Ministerstvo vysshego i srednego obrazovaniya.
(Mechanical engineering--Handbooks, manuals, etc.)

USYSHKIN, Ye.I., inzh.

Device for controlling a transistorized inverter. Vest.
elektroprom. 33 no.6:34-37 Je '62. (MIRA 15:7)
(Electric current converters)

S/105/63/000/003/001/004
A055/A126

AUTHOR: Usyshkin, Ye.I., Engineer

TITLE: Calculation of losses in transistorized pulse-width a-c power amplifiers

PERIODICAL: Elektrichestvo, no. 3, 1963, 61 - 66

TEXT: A three-phase transistorized amplifier with pulse-width modulation is examined, whose output part consists of a three-phase bridge with six transistors. It is proposed to effect the switching-over of each bridge-leg in the same manner as in the modulation of bipolar pulses in a one-phase system. The author calculates the losses in the amplifier under the following assumptions:

a) The condition

$$\xi = \frac{f}{F} > 6 + 8 , \quad (1)$$

(where F is the modulation frequency and f is the switching-over frequency) must be satisfied; the losses are calculated for the case when ξ is an integer, under the assumption that the formulae obtained are applicable also when ξ is a

Card 1/4

Calculation of losses in transistorized

S/105/63/000/003/001/004
A055/A126

fraction satisfying (1). b) The examined amplifier operates with active-inductive loads ($\cos \varphi < 1$); it is assumed that the amplifier output current varies in a sinusoidal manner:

$$i_{\text{outp}} = I_m \sin 2\pi F t ; \quad (2)$$

$$I_m = \sqrt{3} \sqrt{\left(\frac{U_F}{z_F}\right)^2 + \left(\frac{U_{2F}}{z_{2F}}\right)^2 + \left(\frac{U_{4F}}{z_{4F}}\right)^2 + \dots}, \quad (3)$$

where U_F, U_{2F}, U_{4F} are the amplitudes of the harmonic voltages; z_F, z_{2F}, z_{4F} are the phase impedances of the load at corresponding frequencies. c) The angle φ contains an integral number of $2 \frac{\pi}{F}$. Under these assumptions, the losses in saturation conditions and in the case of the forward switching-in of the transistor are determined as:

$$P_{\text{sat}} = I_{\text{eff}}^2 r_T , \quad (5)$$

where I_{eff} is the effective collector current and r_T is the transistor re-

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S/105/63/000/003/001/004

Calculation of losses in transistorized

AC55/A126

sistance in the saturation region. The final formula is:

$$P_{\text{sat}} = \frac{I_m^2}{8} r_T + \frac{I_m^2 r_T \mu}{2\xi} \frac{\cos(\varphi - \frac{\pi}{\xi})}{\sin \frac{\pi}{\xi}} - \frac{I_m^2 r_T}{8\pi} \sum_{p=1,3,5,\dots}^{\infty} J_p \left(\frac{4\pi\mu}{\xi} \right) \cos p \left(\varphi - \frac{\pi}{\xi} \right) \times \\ \times \left[\frac{1}{\sin \frac{\pi}{\xi} (2+p)} + \frac{1}{\sin \frac{\pi}{\xi} (2-p)} \right], \quad (8)$$

where μ is the modulation percentage and $J_p \left(\frac{4\pi\mu}{\xi} \right)$ are the values of the Bessel function with an index equal to an integer. The author examines next the losses (in saturation conditions) in the case of the reverse switching-in of the transistor; formula (8) can be used here if a certain condition is satisfied; another formula giving $I_{\text{eff emitter}}^2$ is derived, under further simplifying assumptions, for the case when this condition is not satisfied. Some other formulae are also deduced, namely the formula giving the losses in the shunting diodes. There are 5 figures.

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Calculation of losses in transistorized

S/105/63/000/003/001/004
A055/A126

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy kinofotoinstitut (All-Union
Scientific Research Motion-Picture-Photo-Institut)

SUBMITTED: December 3, 1962

Card 4/4

USYSHKIN, Ya.I. (Moskva)

Study of half-wave transformer multivibrator synchronization.
Avtom.i telem. 24 no.2:240-247 F '63. (MIRA 16:1)
(Oscillators, Transistor)
(Pulse techniques (Electronics))

L 01869-66 EWT(d)/EEC-4/ED-2

UR/0286/65/000/013/0029/0029
621.375.3

ACCESSION NR: AP5021561

36
BAUTHOR: Usyshkin, Ye. I.

TITLE: Magnetotransistor amplifier. Class 21, No. 172359

SOURCE: Byulleten' izobretensiy i tovarnykh znakov, no. 13, 1965, 29

TOPIC TAGS: magnetic amplifier, transistorized amplifier, pulse width modulation

ABSTRACT: This Author Certificate introduces a magnetotransistor amplifier with pulse-width modulation in the form of a bridge circuit in which diode-shunted transistors (controlled by two multivibrators with regulated phase shift) are connected in the branches. To obtain width-modulated pulses of three-phase a-c voltage at the output, two identical auxiliary low-power multivibrators are used. The multivibrators operate in step with a 90° shift and produce synchronization of the multi-vibrators controlling the power transistors (see Fig. 1 of Enclosure). Phase-shifting magnetic amplifiers with opposing control coils are included in the auxiliary multivibrator synchronization circuit. The final stage is a three-phase bridge circuit. Orig. art. has: 1 figure. [04]

Card 1/3

L 01809-66

ACCESSION NR: AP5021561

ASSOCIATION: none

SUBMITTED: 01Nov62

NO REF SOV: 000

ENCL: 01

OTHER: 000

SUB CODE: EC

ATD PRESS: 40%

Card 2/3

L 01809-66

ACCESSION NR: AP5021561

ENCLOSURE: 01

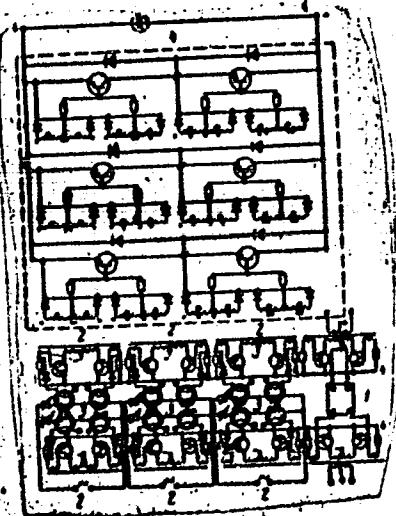


Fig. 1. Magnetotransistor amplifier

1 - Auxiliary low-power reference multivibrator; 2 - controlling multivibrators; 3 - phase-shifting magnetic amplifiers; 4 - output stage.

Card 9/3

USYSKIN, F.L., inzh.

Overall mechanization of the processing of information for the
management of industrial enterprises. Mekh.i avtom. proizv. 17 no.2:
45-50 F '63. (MIRA 16:2)
(Information storage and retrieval systems) (Industrial management)

USYSKIN, Grigoriy Samoylovich; SERPOKRYL, S.M., red.

[On the march, tourists! A guide for Leningrad Province]
Turisty, v pokhod! Marshrutny po Leningradskoi oblasti.
Leningrad, Lenizdat, 1963. 277 p. (MIRA 17:4)

IVANOV, V., kand. tekhn. nauk; USYSKIN, M., inzh.

Wire-reinforced air-entrained lightweight silicate partitions.
Stroi. mat. 4 no. 7:29-30 J1 '58. (MIRA 11:?)
(Lightweight concrete)

USYSKIN, M., inzh.

Kilning soft limestone in rotary kilns. Stroi. mat. 4 no.9:
3 of cover S '58. (MIRA 11:10)
(Limestone) (Kilns, Rotary)

AUTHOR: Borodkin, V. I. (Doctor of technical sciences, RPD 1969)
(Candidate of technical sciences)

SOURCE: Stroitelnye materialy, no. 12, 1964, 24-25

TOPIC TAGS: concrete, silica

SYNOPSIS: Experiments show that it is advisable to use at 1% silica to

reduce the porosity effect - the reduction in the amount of water used

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L 51880-00

ACCESSION NR: AP5017111

ASSOCIATION: none

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SUR. CODE: RT

NO RSP CNTL:

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CIA-RDP86-00513R001858220017-7"

USYSKIN, M.A., kand.tekhn.nauk; SOKOLOV, V.I., doktor tekhn.nauk, prof.;
SHVARTSZAYD, M.S., kand.tekhn.nauk

Effect of the degree of compaction on the strength of lime
concrete formed from stiff mixes. Trudy NIIZhB no.33:248-258
'64. (MIRA 18:2)

1. Vsesoyuznyy zacchnyy inzhenerno-stroitel'nyy institut.

USYSKIN, M.A., inzh.

Production and use of wire-reinforced air-entrained silicate partitions. Trudy NIIKH no.8:136-143 '59.
(MIRA 13:4)

1. Kombinat Stroydetal', Bryansk.
(Lightweight concrete) (Walls)

SOROKER, V.I., doktor tekhn. nauk, prof.; USYKHN, M.M., eng.techn.tekhn.

Determining the expedient degree of the thickening of stiff lime
concrete mixes. Stroim. 10 no.12&24-25 D '64.
(M'RA 1821)

ARKHAROV, V.I.; GORINA, A. I.; USYSKINA, S. L.

"Application of Gas Chrome Plating to the Anti-Corrosion Protection of Equipment
for Souprene Production"

Trudy IMM UFAN, 2nd edition, 49, 1944.

SOV/130-58-11-5/16

AUTHORS: Usyskina, S.L., Riskina, A.P. and Bochkov, D.A.

TITLE: New Hydraulic-Seal Sleeves for Sinter-Strands (Novyye rukava dlya gidrouplotneniya aglomashin)

PERIODICAL: Metallurg, 1958, Nr 11, p 12 (USSR)

ABSTRACT: Tests at the sinter plants of the Nizhne-Tagil'skiy and Magnitogorskiy combines of a new type of hydraulic seal developed by the Nauchno-issledovatel'skiy institut rezinovoy promyshlennosti (Rubber Industry Scientific Research Institute) showed the superiority of the new over the present types. The sleeves were made at the Leningradskiy zavod rezino-tehnicheskikh izdeliy (Leningrad Technical Rubber Goods Works) for the Indian steelworks. The authors suggest that the new type should be generally adopted.

ASSOCIATION: Rubber industry scientific research institute (Institut rezinovoy promyshlennosti)

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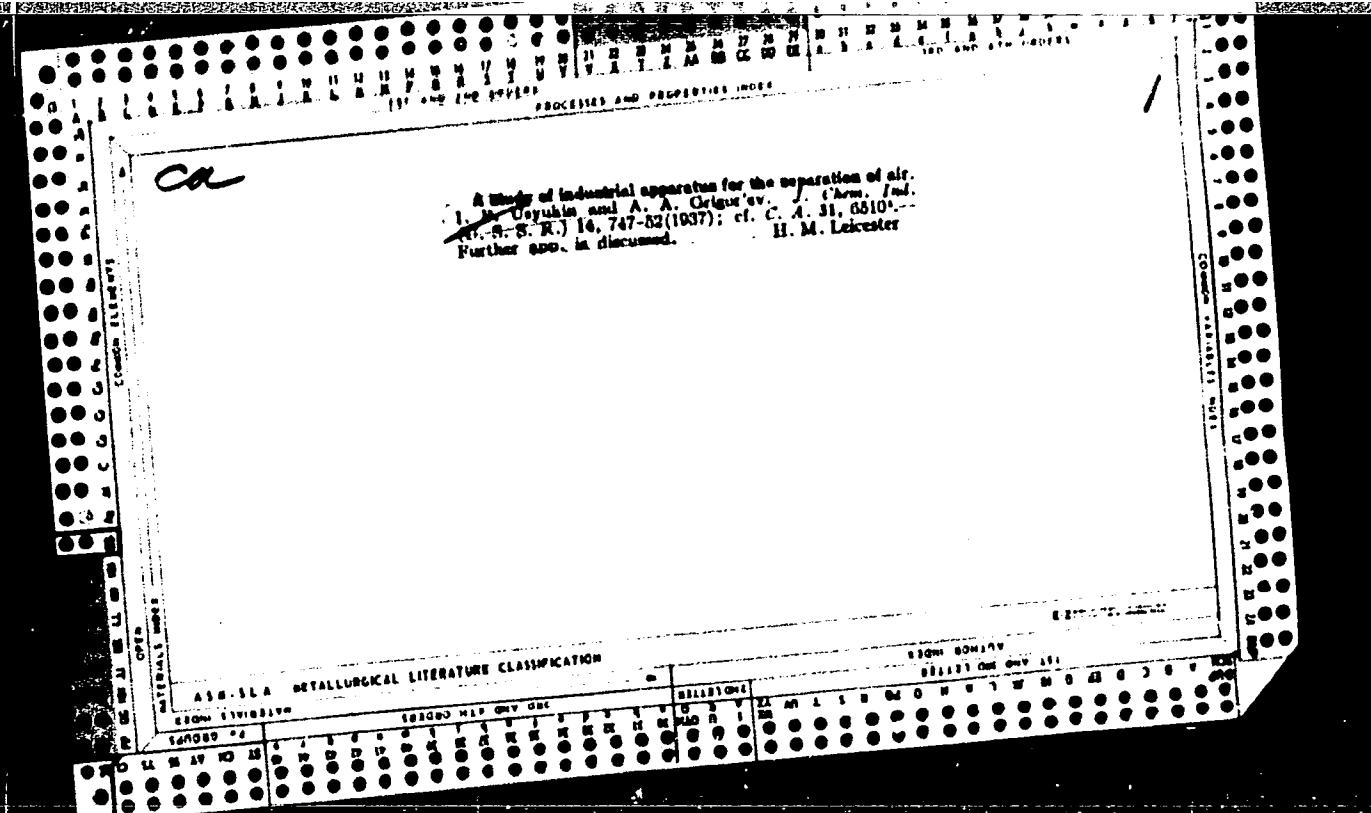
CA

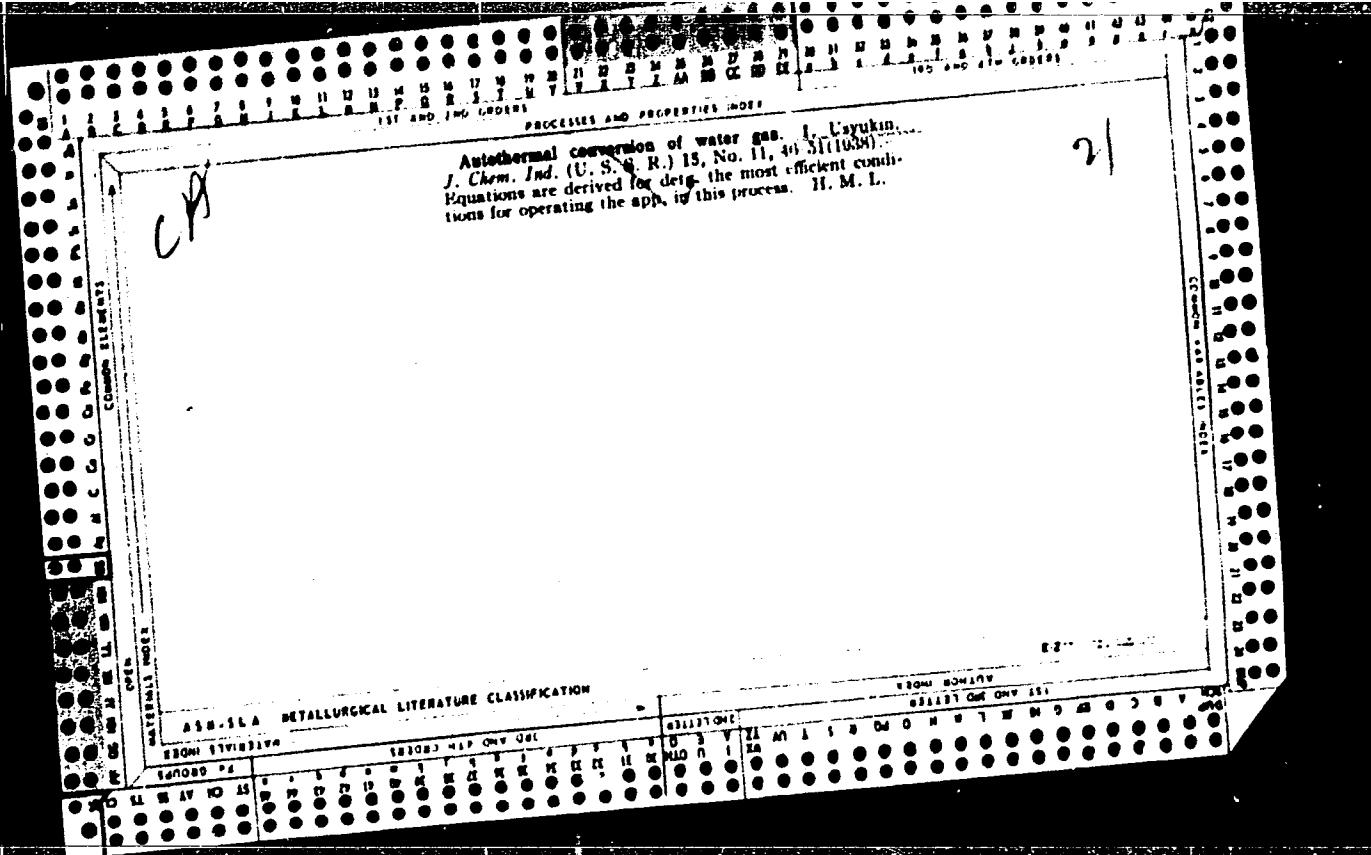
RECEIVED AND PROCESSED 2014
Thermodynamic characteristics of the processes of liquefaction of gases. N. I. Gel'perin and I. P. Uayukin. Khimizdat, 573-81(1934); cf. C. A. 29, 31¹, 261¹. —A preliminary math. paper, with applications to the Linde, Claude and Heylandt processes. *Ibid.* 7, 10-14(1935). —Discussion with math. treatment of the energy consumption in the air liquefaction by the process proposed by U, as compared with those by Linde, Claude and Heylandt.
Chas Blanc

ASR SLA METALLURGICAL LITERATURE CLASSIFICATION

The use of a cooled absorber for intensification of the
sulfuric acid process. I. P. Ugnatkin and V. N. Suchkov.
J. Chem. Ind. (U. S. S. R.) 13, 1428-31 (1936). — An app.
for the tower system is described, in which absorption of
NO goes on at 0°. The energy required is furnished by
the heated gases of the process. H. M. Lester

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION





CA

Performance of one-stage absorption cooling machines.
I. P. Uvarov. Khim. Prom. 1961, No. 6, 8-31 cf. 70d.
No. 7.—A further comparison between absorption and
condensation cooling app. Several large and small ab-
sorption cooling units were built. Their performance was
carefully recorded and it was concluded that the absorp-
tion type of cooling app. is simpler to build and to operate;



CA

Present and prospective status of the construction of plants for the production of technical oxygen. I. P. Ishkin. Kislard 3, No. 5, 1-10(1940).—Various types of the Linde-Friiski plant are described, along with other large plants. Technological scheme of the Linde-Friiski oxygen plant and the peculiarities of its cold cycle. M. B. Stolper. Ibid. 18-23. Search for new processes for the production of pure oxygen. A. F. Ivanov. Ibid. 35-8. 6 Low-pressure plant of the Clark Firm for the production of gaseous oxygen. N. F. Reshetnikov and I. P. Ishkin. Ibid. 26-34.—The semiportable equipment described uses a cold cycle operating between pressures of 5.5 and 7.0 atmos. Through Chem. Zemir. 1948, I, 1006. M. G. Moore

CA

Methods of obtaining cold water in the sulfite pulp industry. L. P. Ulyukin and N. K. Lukhin. *Raznoch. Prom.* 16, No. 6, 6-12 (1937). The need for cold H₂O in the manuf. of sulfite pulp is discussed in terms of cooking-acid prepns. The operating characteristics, efficiencies, and economics of 3 types of refrigeration or cooling units, vapor compression, absorption (I), and steam-jet ejector (II), are considered in some detail. II is the most economical method for cooling H₂O to 5-10° from moderate summer H₂O temps. For cooling H₂O below 5° or for summer H₂O temps above 20°, I is the most economical method. As an integrated part of a sulfite mill, II, operating in summer only, is recommended on a basis of low capital and maintenance costs. John Lake Krays

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137-58-6-11549

Translation from: Referativnyy zhurnal, Metallurgiya, 1958, Nr 6, p 43 (USSR)

AUTHOR: Usyukin, I.P.

TITLE: The Current Status and Prospects of the Production of Gaseous Oxygen for the Intensification of Metallurgical Processes (Sostoyaniye i perspektivy polucheniya gazoobraznogo kisloroda dlya intensifikatsii metallurgicheskikh protsessov)

PERIODICAL: V sb.: Primeneniye kisloroda v metallurgii. Moscow, Metalurgizdat, 1957, pp 26-30

ABSTRACT: A description is offered of oxygen installations in the Federal Republic of Germany and in the USA, and the rate of O₂ production and consumption in these countries. As of 1957, the Linde Company in Germany manufactured oxygen-producing plant of a total capacity of 350,000 m³/hr. In the USA, as of 1952, oxygen plant with a total capacity of 200,000 m³/hr had been installed, while in the USSR, as of 1955, the oxygen plant built had a total capacity of 70,000 m³/hr. Data are presented on the operation of the USSR oxygen plants, models BR-1 (12,000-18,000 m³/hr), KT-100, and KT-3600 (3500 m³/hr). The power requirement of the BR-1 is lower than that of the

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137-58-6-11549

The Current Status and (cont.)

others, and 40% less metal is required for its construction. The economic practicability of building units producing from 12,000-40,000 to 100,000 m³/hr of O₂ is demonstrated. Critical remarks are offered on the construction in the USSR of the KT-3600 units which are expensive and inefficient, and require complex equipment. When O₂ is used in blast furnaces, the heating value of blast-furnace gas rises to 1200-1300 cal/m³. Such gas completely supplants coke-oven gas in metallurgical furnaces. The economy from the reduction in use of coke-oven gas as fuel significantly reduces the overall cost of O₂.

B.L.

1. Metals--Processing 2. Oxygen--Production 3. Oxygen--Consumption

Card 2/2

AUTHOR: Usyukin, I.P., Professor, Doctor of Technical Sciences,
TITLE: Present state and prospects of tonnage oxygen production.
(Sostoyanie i perspektivy proizvodstva tekhnologicheskogo
kisloroda.)
PERIODICAL: "Metallurg" (Metallurgist),
1957, No. 2, pp. 33 - 36, (U.S.S.R.)

ABSTRACT: This article deals with tonnage oxygen production in the U.S.S.R. and abroad. The Soviet Union started production in 1935, and in 1939 a 5 000 m³/h plant for 60% oxygen went into operation. At present, several types of Soviet installation: 300-2D, KT-1000, BR-4 and BR-3 with hourly productivities of 300, 1 000, 3 500 and 5 200, respectively, m³ of 99% oxygen, and Br-1 with a productivity of 10-15 thousand m³ per hr of 96-99% oxygen. By the end of the fifth Five Year Plan available equipment had a capacity of 70 000 m³/h, by 1960 the figure is due to rise to 460 000 m³/h. At present, however, many installations are not fully utilised: at the Novo-Tul'skiy Metallurgical Works utilisation is only 30-40%, at the Shchekinskij Gas and Chemical Works the figure is 40%. Other metallurgical works, e.g. Azovstal and Zaporzhstal are short of oxygen.

To avoid the many mistakes that have been made in the past, in the provision of oxygen installations, the characteristics of the different types must be considered; data presented show that the construction programme should be based on type BR-1 whose capacity and efficiency are very high. In this installation filtered air, compressed to 5.8 atm. is divided between

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Present state and prospects of tonnage oxygen production.
(Cont.)

oxygen and nitrogen regenerators in which it is cooled to saturation. For drying and decarbonisation 3% less air by weight is directed to the oxygen regenerators than the production oxygen obtained. The other part of the air goes to the nitrogen regenerators. As an example of power consumption, the installation uses about 0.482 kWh per m³ of 99% oxygen produced at 14 000 m³ per hour, and about 0.39 kWh per m³ of 96% oxygen at 9 000 m³ per hour.

The price of oxygen decreases with increased capacity and utilisation and for blast furnace plants 10-30 thousand m³ per hour oxygen plants are recommended.

There are five figures.

PHASE I BOOK EXPLOITATION

SOV/3922

Usyukin, Ivan Petrovich, Ivan Grigor'yevich Aver'yanov, Vladimir Semenovich
Gorokhov, Anatoliy Maksimovich Gorshkov, Aleksandr Vasil'yevich Zakharov,
and Nikolay Kasparyovich Yelukhin

Mashiny i apparaty ustanovok razdeleniya vozdukha metodom glubokogo okhlazhdeniya;
atlas konstruktsiy (Machinery and Apparatus for Air Separation by Low-Temperature
Refrigeration; Atlas of Designs) Moscow, Mashgiz, 1959. 189 p. Errata slip
inserted. 5,000 copies printed.

Ed.: I.P. Usyukin, Doctor of Technical Sciences, Professor; Reviewers: I.K.
Kondryakov, Candidate of Technical Sciences, and M.P. Malkov, Doctor of
Technical Sciences, Professor; Eds.: P.M. Ionov, Engineer, B.N. Bol'shakov,
and N.S. Kasperovich; Managing Ed. for Catalogs and Albums: K.A. Ponomareva,
Engineer; Tech. Ed.: A.Ya. Tikhonov.

PURPOSE: This atlas is intended as a design manual for students of schools of
higher technical education and can be used by planning and design offices and
scientific research institutes in the study of problems of low-temperature
refrigeration and the use of oxygen as a means of raising industrial output.

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Machinery and Apparatus (Cont.)

SOV/3922

COVERAGE: The atlas contains basic designs of Soviet and non-Soviet plants for separating air by the low-temperature refrigeration method. Also included are types of expansion engines and turbines, pumps for liquid oxygen, basic types of heat exchangers and rectification equipment used in oxygen and nitrogen plants, containers for storage and transportation of liquid gases, and auxiliary apparatus for drying and cleaning air. The operation of typical accessories under low-temperature conditions is shown. No personalities are mentioned. There are no references.

TABLE OF CONTENTS:**Foreword**

3

DESCRIPTION OF AIR-SEPARATION PLANTS

Commercial Oxygen [99.2 to 99.5% Pure] Gas and Pure	
Nitrogen [99.95%] Plants	
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KIN-30-T commercial-oxygen plant	5
AKG-115/18 pure-nitrogen and commercial-oxygen plant	5
UKGS-100 commercial-oxygen plant	5

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U.S.Y.U.K.I.N., I.P.

S07/00-394-19/26

AUTHOR:	Name Given: All-USSR Scientific Technical Convention on Refrigeration Engineering Bakal'skiy Institute, 1959, No. 4, pp 61-65 (USSR)
TITLE:	
PUBLISHER:	
ABSTRACT:	Under the auspices of the Interindustry Refrigeration Institute (Centralized Scientific and Technical Institute of Refrigeration Industry), of the Ministry of Food Industry, and the All-USSR Scientific and Technical Institute of Refrigeration Industry (Ministry of Food Industry) and the All-USSR Institute of Refrigeration (Ministry of Food Industry) a seminar-type scientific discussion (Refrigeration Seminar) was held in Leningrad from the 6 through 9 August, 1959, which was attended by 524 people. Below are given the names of the principal lecturers, the titles of the lectures, the names and the titles of their listeners. V.P. Kholosov (Ministry of Trade and of National Economy) "Tasks of Development and of Application of Refrigeration in the National Economy of the USSR"; P.V. Gorbunov, Bachelor (Candidate) "Fields of Application of Refrigeration Equipment in Industry"; V.P. Irinberly, Bachelor (Candidate) "Designing Facilities of Production
Case 1/4	

Proceeds in the Food Industry" "Organization and Designing of Automatic Systems in Refrigeration Installations"; B.I. Tsvetkov, Engineer (MTRD) "Investigation of the Work of Compressors of Vacuum Piping Block-Crankcase Type"; I.L. Slobodchikov, Candidate of Technical Sciences "Investigation of Small Freezer Components With Small Electric Motors"; D.N. Zaitsev, Candidate of Technical Sciences (MTRD) "Investigation of Heat-Insulating Materials of Filled Metal Composites"; V.A. Shchegolev, Professor and Doctor of Technical Sciences "Problems of the Problem of Complete Utilization of Refrigeration Mechanisms"; S.J. Kryzhevsky, Professor and Doctor of Technical Sciences and B.B. Parfylevich, Professor (Obninsk Technical Institute of Food and Refrigeration Industry) "Experimental Air Separation at the Cold Point of the Vortex Tube"; S.F. Uspenskiy, Professor and Doctor of Technical Sciences (Moscow Institute of Chemical Production) "Results of the Two Years Working Period of the Industrial Production Building" "Results of the Prospects of Production Technological Processes"; A.I. Polozov, Candidate of Technical Sciences and B.V. Chuklin, Bachelor (MTRD) "Current Needs in the Design and Construction of Technical Institutes" "Design and Construction of Technical Institutes" (Leningrad Scientific and Technical Institute); K.I. Strakhovich, Professor and G.E. Chirkov, Candidate of Technical Sciences (Leningrad Technological Institute of Ref-

Case 2/4

rigeration Industry) "Theoretical Investigation of Organization of Molten Steel of the Air Turbine-Pressurizer-Boiler"; A.A. Gorobits, Candidate of Technical Sciences (MTRD) "Work of Developing and Designing Basic Components of Thermal Power Plants" "Investigation of Thermal Efficiency of the All-USSR "Kirovograd" Steam Boiler Plant" "Optimization of the Condenser Cooling and Air Circulation on the Cranes in Hot Workshops"; I.S. Korobkin, Candidate of Technical Sciences (Ministry of Chemical Production) "Influence of the Pressure and Doctor of Biological Sciences (Bartolomeo Pirelli) "Influence of Low Temperatures on Organisms"; M.A. Golovchenko, Professor and Doctor of Technical Sciences (Leningrad Technical Institute of Refrigeration Technology) "Quality of the Muscular Tissue Under Refrigeration Conditions"; V.G. Alekseev, Candidate of Technical Sciences "Properties of Food Products"; N.M. Alekseev, Candidate of Technical Sciences and V.A. Shcherbinina, Candidate of Technical Sciences "Influence of Freezing Rate on the Quality of Frozen Meat"; A.P. Shcherbinina, Candidate of Technical Sciences and A.D. Shcherbinina (All-USSR Scientific Research Institute of Food Industry) "Influence of Freezing Rate on the Quality of Meat"; A.P. Shcherbinina, Candidate of Technical Sciences "Influence of Temperature on the Form of Ripening and Decay of Spices Preservation".

Case 3/4

Technical Sciences and A.D. Shcherbinina (All-USSR Scientific Research Institute of Food Industry) "Influence of Freezing Rate on the Quality of Meat"; A.P. Shcherbinina, Candidate of Technical Sciences "Influence of Temperature on the Form of Ripening and Decay of Spices Preservation".

Case 4/4

30324
S/184/61/000/006/001/005
D041/D113

5.2440
11.11.05

AUTHOR:

Usyukin, I.P., Doctor of Technical Sciences, Professor

TITLE:

Results of the long-term operation of BR-1 and BR-5 process oxygen installations

PERIODICAL: Khimicheskoye mashinostroyeniye, no. 6, 1961, 11-17

TEXT: The results are described of the long-term operation of various installations producing process oxygen designed according to the "triple blowing" principle developed by the author. The principle consists in introducing a third nitrogen regenerator into the system, in order to prevent the regenerators from freezing when the installation operates at low pressure so that the temperature difference at the cold end between the air and the separation products is not less than 4-5°C. The results were obtained with the following installations: the 5P-1 (BR-1) installation (Fig.1) operating at the Zaporozhstal' Plant; the 5P-5 (BR-5) installation with a capacity of 5000-6000 m³/hour developed on the same lines as the BR-1 installation and operating at the Chelyabinskii metallurgicheskiy zavod (Chelyabinsk Metallurgical Plant) and the Krivorozhskii metallurgicheskiy zavod (Krivoy

Card 1/5

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S/184/61/000/006/001/005
D041/D113

Results of the long-term operation

Rog Metallurgical Plant); and the BR-1 installation operating at the Novotul'skiy metallurgicheskiy zavod (Novotul'skiy Metallurgical Plant) (NTMZ). Besides process oxygen, the BR-1 installation of the Zaporozhstal' Plant produces 460 m³/hr pure gaseous oxygen and primary krypton concentrate. The Krivoy Rog BR-5 installation produces 200 m³/hr pure gaseous oxygen besides process oxygen. The test results with all four installations have shown that the "triple blowing" principle is fully recommendable and that these installations can be used as models for the development of new more powerful installations. The productivity of the BR-1 of the NTMZ and the BR-1 of the Zaporozhstal' Plant can be increased if the cooling temperature of the air is normal before it enters the regenerators. Thus, the output of NTMZ installation has reached 15,200 m³/hour while the Zaporozhstal' installation systematically produces approximately 14,000 m³/hour of oxygen instead of 10,000 m³ as provided by the project. One of the most important factors concerning the production increase is the reduction in the temperature of the air entering the installation. The existing type of jet turbo expansion engine whose gas quantity is not controllable, does not meet the economic requirements of the installations. In the case of all the installations, it is necessary to throttle the air to 0.8-1.5 at. the ✓

Card 2/5

30324

Results of the long-term operation

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energy consumption being increased by 10-15%. Under optimum conditions the machine operates with an efficiency of 0.6, and on the average with an efficiency of approximately 0.55. Therefore the old turbo expansion engines must be replaced by new, highly-efficient controllable ones. The advantages of the third nitrogen regenerator are that (a) it is more thoroughly cleaned of carbon dioxide and water vapor and (b) impurities are removed during the first period of cold blowing. In the BR-1 and BR-5 installations, the presence of pure and dry nitrogen during the second cold-blowing period permits any quantity of pure gaseous and liquid oxygen to be produced without using a jewel capping. An expansion heat exchanger was included in the installation because it was assumed that the air coming from the nitrogen regenerator would contain carbon dioxide and water vapor. The experiments have shown that, since under normal operating conditions there are no impurities in the circulating air, the expansion heat-exchanger should be eliminated. The above-mentioned installations can be used for producing pure gaseous oxygen of reduced quantity, as compared to the process oxygen. There are 10 figures and 4 references: 2 Soviet-bloc and 2 non-Soviet-bloc.

Card 3/5

S/081/62/000/017/076/102
B156/B186

AUTHORS: Usyukin, I. P., Shleynikov, V. M.

TITLE: Solubility of acetylene in selective solvents at low temperatures

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 17, 1962, 476, abstract 17M192 (Novosti neft. i gaz. tekhn. Neftepererabotka i neftekhimiya, no. 12, 1961, 33 - 39)

TEXT: The solubility of acetylene (I) in eight solvents (acetone, methanol, methyl pyrrolidon, dimethyl formamide, dimethyl acetate, ethyl ether, m-xylene, and dichloroethane), was determined in relation to the temperature, at $P_{C_2H_2} = 1$ atm. It is shown that the solubility of I in

these solvents increases abruptly as the temperature is reduced. An empirical equation for the solubility of acetylene in solvents with relation to the temperature is given. [Abstracter's note: Complete translation.] ✓

"Card 1/1

USYUKIN, I.P.; SHLEYNIKOV, V.M.

Solubility of propylene in methanol at low temperatures. Gaz.
prom. 6 no.12:40-42 '61. (MIRA 15:2)
(Propene)
(Methanol)

USYUKIN, I.P., prof., doktor tekhn.nauk; PETERSBURGSKIY, A.V., prof.,
doktor sel'skokhozyaystvennykh nauk; UVAROVA, A.P.

Ammonium bicarbonate, an effective nitrogen fertilizer.
Zemledelie 23 no. 2:74-81 F '61. (MIRA 14:2)
(Ammonium carbonate)

USYUKIN, I.P., doktor tekhn.nauk; SHLEYNIKOV, V.M.

Methanol vapor density at low temperatures. Khim.prom. no.1:65-66
(MIRA 15:1)

Ja '62.

(Methanol) (Vapor density)

USYUKIN, I.P.

Losses of ammonium dicarbonate during prolonged storage. Min.
prom. no.6:457-461 Je '62. (M.A 16:11)
(Ammonium carbonate--Storage)

BEGLOV, B.M.; SHOKIN, I.N.; KRASHENINNIKOV, S.A.; USYUKIN, I.P.

Ammonium bicarbonate production process. Khim.prom.
no.10:719-723 O '62. (MIRA 15:12)
(Ammonium carbonate)

USYUKIN, I.P.; AVER'YANOV, I.G.; UVAROVA, A.F.; Prinimali uchastiye:
DOLGOV, A.A.; CHEREPKOVA, A.A.

Continucus method of the production of ammonium bicarbonate.
Khim.prom. no.10:723-728 O '62. (MIRA 15:12)
(Ammoniumcarbonate)

USYUKIN, I.P.; SHLEYNIKOV, V.M.

Solubility of carbonic acid in some organic solvents at low temperatures. Neftper. i neftekhim. no.1:39-43 '63.
(MIRA 16:10)

1. Moskovskiy institut khimicheskogo mashinostroyeniya.

USYUKIN, I.P.; SHELYNIKOV, V.M.; TIMOFEEV, A.V.; SHCHEKINA, G.N.

Effect of carbonic acid on the solubility of acetylene in
acetone and methanol at low temperatures. Nefteper. i
neftekhim. no.11:35-40 '63. (MIRA 17:5)

i. Moskovskiy institut khimicheskogo mashinostroyeniya.

USYUKIN, I.P.; SHLEYNIKOV, B.M.; SOROKINA, Ye.S.

Solubility of ethylene in certain selective organic solvents at
low temperatures. Gaz. prom. 8 no.4:40-42 '63. (MIRA 17:10)

1. 1. 314.7

Acetylene Solubility in Methanol

SOURCE: Neftepererabotka i neftekhimiya, no. 5, 1965, 37-40

TOPIC TAGS: acetylene, solubility, methanol, solvent extraction, acetone, benzene

ABSTRACT: The first stage of the high pressure extraction of acetylene from acetylene

L 53524-69
ACCESSION NR: APSC-3516

solubility logarithm - reverse temperature was used as criterion at 0.025 mol/liter
1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000 1000
600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600 600
500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500 500
400 400 400 400 400 400 400 400 400 400 400 400 400 400 400 400 400
300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300
200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200 200
100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

The equation half time for the whole temperature range of the investigated substances
is given by the following equation:

ASSOCIATION: Moskovskiy institut khimicheskogo mashinostroyeniya (Moscow Institute
of Chemical Machine Building)

Cont 2/5

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NO REF Sov: 004

OTHER: 000

Card 3/5

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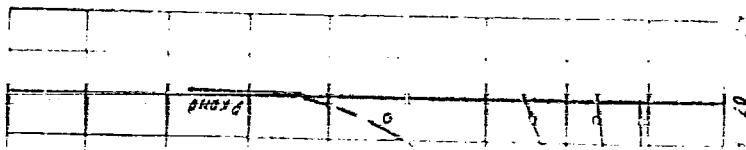
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ACCESSION NR: AP5013516

ENCLOSURE: 01



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Conf. S. P.

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001858220017-7"

ACC NR: AP7002726

SOURCE CODE: UR/0318/66/000/012/0036/0039

AUTHOR: Demidova, Yu. A.; Usyukin, I. P.; Shleynikov, V. M.

ORG: Moscow Institute of Chemical Machine Building (Moskovskiy institut Khimicheskogo mashinostroyeniya)

TITLE: Phase equilibria in the system N-methylpyrrolidinone-carbon dioxide at high pressures

SOURCE: Neftepererabotka i neftekhimiya, no. 12, 1966, 36-39

TOPIC TAGS: carbon dioxide, methylpyrrolidinone, carbon dioxide solubility, heat of solution

ABSTRACT:

A study has been made of the solubility of carbon dioxide in N-methyl-pyrrolidinone (NMP) in the -20—+20°C range under pressures of up to 20 atm. The study was undertaken to establish the optimum conditions for the absorption of CO₂ from gas mixtures at high pressures and low temperatures. The experimental procedure was described by the authors in an earlier study (Neftepererabotka i neftekhimiya, 1963, no. 1, p. 39). The results of the experiments given in the table indicate that the solubility of CO₂ increases with decreasing temperatures, and that the sharpest increase is observed at pressures above 6 atm. Analysis of the

Card 1/3

UDC: 547.745-185

ACC NR: AP7002726

Table 1. Solubility of CO₂ in NMP

Temperature, deg.	Pressure, at.						
	1	2	4	8	16	20	
+20:							
N ₂	3.95 0.172	4.38 0.019	9.96 0.042	17.52 0.0710	25.8 0.11	47.05 0.173	75.6 0.251
+10:							
N ₂	5.00 0.0257	7.34 0.0313	17.0 0.064	30.1 0.103	44.7 0.161	77.48 0.254	117 0.341
O ₂							
N ₂	8.10 0.0347	12.10 0.051	21.0 0.085	34.8 0.13	57.6 0.23	118 0.344	182 0.445
-10:							
N ₂	11.7 0.0498	15.6 0.064	24.8 0.116	46.4 0.17	82.6 0.27	164 0.43	316 0.574
-20:							
N ₂	16.75 0.0592	22.6 0.091	40.4 0.152	67.9 0.23	117 0.342	292 0.568	—

a, solubility.

N₂, molar share of CO₂ in the solution.

experimental results indicated that in the studied temperature and pressure range the solubility of CO₂ in NMP deviates from Henry's law, and

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ACC NR: AP7002726

can be expressed by the formula of Krichevskiy-Ilinskaya. An empirical formula was derived for determining the solubility of CO₂ in NMP in the studied temperature and pressure range. The heat of solution of CO₂ in NMP was found to be 3540 cal/mol. Orig. art. has: 6 figures and 3 tables.

SUB CODE: 07/ SUBM DATE: none/ ORIG REF: 007/ OTH REF: 008/ ATD PRESS: 5111

Card 3/3

"APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001858220017-7

UMAROV, G.Ya.; USYUKIN, V.I.; ABUTALIYEV, F.B.

Deformation of a conical film type reflector. Geliotekhnika
(MIRA 19:1)
no.5:19-25 '65.

1. Fiziko-tehnicheskiy institut AN UzSSR. Submitted June 20, 1965.

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001858220017-7"

L 1769-55 EWA(h)/EWP(k)/EWT(d)/EHT(a)/EWA(d)/EWP(w)/EWP(v) Pf-4/Peb EM
ACCESSION NR: AP4035064 S/0179/64/000/002/0134/0140 D.S.

AT THOR: Usyukin, V. (Moscow)

TITLE: Deformation of membrane shells of revolution

SOURCE: AN SSSR. Izvestiya. Mekhanika i mashinostroyeniye, no. 2, 1964, 134-140

TOPIC TAGS: axiosymmetrical shell, membrane shell, shell deformation, thin deformed shell, stressed shell, shell of revolution, /

ABSTRACT: The calculation of the shape of shells subjected to internal pressure and tensile stresses has been investigated. Membrane shells are defined as momentless elastic shells which cannot support compressive stresses. The shell displacements are assumed to satisfy the linearized equations. The form of such shells may

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of different sections of
the shell, and by matching these sections with
method is applied to the shell shapes shown in Figures 1, 2, 3, and 4.

Card 1/4

41769-65

ACCESSION NR: AF4135064

"The author thanks L. L. Balabukh for numerous comments." Orig. art. has: 43 formulas
and 11 figures.

ASSOCIATION: None

SUBMITTED: 08JUL63

ENCL: 02

SUB CODE: AS, ME

NO REF Sov: 006

OTHER: 001

APPROVED FOR RELEASE: 04/03/2001

CIA-RDP86-00513R001858220017-7

Card 2/4

L 41047-66

ACC NR: AP6018085

(A)

SOURCE CODE: UR/0377/65/000/005/0019/0025

AUTHOR: Umarov, G. Ya. (Candidate of physico-mathematical sciences); Usyukin, V. I.
Abutaliyev, F. B.

ORG: Physico-Technical Institute, AN UzSSR (Fiziko-tehnicheskiy institut AN UzSSR)

TITLE: Strain in the conical film reflector

SOURCE: Gelotekhnika, no. 5, 1965, 19-25

TOPIC TAGS: material deformation, solar energy conversion, shell structure, elastic deformation

ABSTRACT: The authors consider the deformation of a conical film reflector as a momentless shell of revolution which is under normal pressure and corresponding axial force. They obtain a linearized resolvent equation of the shell which yields its deformed shape for different boundary conditions. The characteristics of the reflector material are assumed to be elastic. The theoretical results are found to be in close agreement with experimental data on gas-filled conical films. Orig. art. has: 4 figures, 33 formulas.

10, 13, 11
SUB CODE: 125137 SUBM DATE: 20Jun65

Card 1/1-00

ACCESSION NR: AP4042396

S/0056/64/047/001/0248/0251

AUTHOR: Usyukina, N. I.

TITLE: Asymptotic expression for the scattering amplitude in the Compton effect

SOURCE: Zh. eksper. i teor. fiz., v. 47, no. 1, 1964, 248-251

TOPIC TAGS: scattering amplitude, Compton effect, perturbation theory, Regge pole

ABSTRACT: In analogy with the use of the renormalization group for the determination of asymptotic scattering amplitudes by B. A. Arbuzov et al. (Phys. Lett. v. 2, 150, 1962) and by A. A. Logunov et al. (Nucl. Phys. v. 44, 275, 1963), the author considers from the same point of view a different example of quantum electrodynamics, the Compton effect. The asymptotic value is obtained in the threshold region for positronium, $s \rightarrow 4m^2$, in order to check the

1/3

ACCESSION NR: AP4042396

correspondence between the values of the energy levels obtained from the expression for the Regge exponent and the values of the energy levels of positronium calculated in the usual manner. The method consists essentially of summing a definite class of perturbation-theory graphs and refining the results with the aid of the renormalization group, which is applied not to the invariant amplitudes but to physical ones (scattering amplitudes in the singlet and triplet states). It is shown that the scattering amplitude in the singlet state has in the threshold region in the s-channel a "Regge" asymptotic behavior with respect to t, which makes it possible to determine the energy levels accurate to e^2 . No expressions with the same asymptotic amplitudes as for the singlet states are obtained for the triplet states. "I am grateful to L. D. Solov'yev for useful discussions and continuous interest." Orig. art. has: 1 figure and 18 formulas.

ASSOCIATION: Ob'yedinenny'y institut yaderny'kh issledovaniy

2/3

ACCESSION NR: AP4042396

(Joint Institute of Nuclear Research)

SUBMITTED: 19Jan64

ENCL: 00

SUB CODE: NP

NR REF Sov: 001

OTHER: 004

3/3

USYUKOV I. P.

USYUKOV, Ivan Petrovich, prof., kand.tekhn.nauk; AVER'YANOV, Ivan Grigor'yevich; GOROKHOV, Vladimir Semenovich; GORSHKOV, Anatoliy Maksimovich; ZAKHAROV, Aleksandr Vasilevich; YELUZHIN, Nikolay Kasparovich; MALKOV, M.P., prof., doktor tekhn.nauk, retsenzont; IONOV, P.M., inzh., red.; BOL'SHAKOV, B.N., red.; KASPEROVICH, N.S., red.; TIKHANOV, A.Ya., tekhn.red.

[Machinery and apparatus for units separating air by the method of deep refrigeration; atlas of designs] Mashiny i apparaty ustanovok razdeleniya vozdukh metodom glubokogo okhlazhdeniya; atlas konstruktsii. Pod red. I.P.Usiukina. Moskva, Gos.nauchno-tekhn.izd-vo mashinostroitel.lit-ry, 1959. 189 p. (MIR 13:3)

(Gases--Separation)
(Refrigeration and refrigerating machinery)

USZKIEWICZ, Lidia

Preparation of psychiatric expert testimony; general
considerations. Neur. &c. polska 6 no.1:65-72 Jan-Feb
56.

1. Z Państwowego Instytutu Psychoneurologicznego w Pruszkowie.
(JURISPRUDENCE, MEDICAL,
psychiat. exper. testimony. (Pol))
(PSYCHIATRY,
exper. testimony. (Pol))

USZKIEWICZOWA, Lidia

Remarks on the proposal of the penal code. *Neur. &c. polska*
6 no.6:941-952 Nov-Dec 56.

1. Instytut Psychoneurologiczny w Pruszkowie, Dyrektor: prof.
dr. Z. Kuligowski.

(MEDICINE, LEGAL

criminal responsibility, relation to crimes committed
during alcoholic intoxication, in Poland (Pol))

(ALCOHOLIC INTOXICATION

crimes committed during intoxication, relation to
criminal responsibility in Poland (Pol))

USZKIEWICZOWA, Lidia

Dr. Włodzimierz Jelowicki. Neur. &c. polska 7 no.5:761-762 Sept-Oct
57.

(OBITUARIES

Jelowicki, Włodzimierz (Pol))

UZKII WIGOWA, Anna

On the proposal of Dr. med. n. sci. prof. dr. hab. n. sci.
Neurolog., neurochir. i. uro. doc. med. Uniwersytetu Warszawskiego
prof. dr. hab. n. sci. prof. dr. hab. n. sci. prof. dr. hab. n. sci.

1. w Instytucie Psychoneurologicznym w Pruszkowie (yrektor Insty-
tutu) prof. dr. hab. n. sci. prof. dr. hab. n. sci.

USZOV, Sz. V. (Usov, S.V.), professor

Automation problems of the dispatcher control of power systems.
Villamossag 9 no.4:84-87 Ap '61.

1. Leningradi Muszaki Egyetem Ermuvek tanszeke

USZTA, Gyula, Altabornagy

Our task is to contribute to the defense of the country; an account of the work of the Hungarian Sports Federation for National Defense. Repules 16 no.7:4-5 Jl '63.

1. Magyar Honvedelmi Sportszovetseg Orszagos Elnoksege
elnoke; honvedelmi miniszterhelyettes.

USTA, D'yula [Uszta, Gyula], general-leytenant

Defense society of People's Hungary. Voen.znan. 39 no.9:21-22
S '63. (MIRA 16:10)

1. Predsedatel' prezidiuma Vengerskogo oboronno-sportivnogo
soyuza.

ORMOS, Jeno.,; USZTIG, Gabor.,; BOTOS, Arpad.,; KORPASSY, Bela, professor.

Adrenalin-type arteriosclerosis induced by experimental coarctation
of the aorta in rabbits. Acta morph. hung. 6 no.1:129-139 1955

1. Dept. of Pathological Anatomy and Histology (Director: prof. B.
Korpasy) and the Dept. of Exper. Surgery (Director: Prof. G. Petri)
of the Medical University, Szeged. Szeged, Kossuth L.s. u. 40 Hungary
(for: Ormos, Jeno; Usztig, Gabor; Korpasy, Bela.) Szeged, Kossuth L.
s.u. 35 Hungary. (for: Botos, Arpad.)

(COARCTATION OF AORTA, experimental,
causing arteriosclerosis in rabbits)
(ARTERIOSCLEROSIS, experimental,
prod. by coarctation of aorta)

WALCZYNSKI, Zbigniew; USZYCKA-KARCZ, Marta

Partial prolapse of the uterus and hemivertebra in a 1-month-old infant. Pol. tyg. lek. 19 no.33:1290 17 S '64.

1. Z I Kliniki Chorob Dzieci Akademii Medycznej w Gdansku
(kierownik: prof. dr K. Frejinski).

ZYCHOWICZ, Czeslaw; Kulczynska, Krystyna; SKARZYNSKA, Halina; USZYCKA--
KARCZ, Marta

Studies on the incidence of cystic fibrosis of the pancreas in
children from Gdansk and Gdynia. Pediat. Pol. 40 no.3:289-293
Mr '65

1. Z I Kliniki Chorob Dzieci Akademii Medycznej w Gdansku
(Kierownik: prof. dr. med. K. Erecinski).

BULSKA, Małgorzata; SIAWINSKA, Danuta; USZYCKA, Krystyna

Value of clinical diagnosis in malignant ovarian tumors. Polski tygod.
lek. 13 no.33:1280-1283 18 Aug 58.

1. (Z Oddziału Polozniczo-Ginekologicznego Instytutu Gruźlicy i Instytutu Doskonalenia i Specjalizacji Kadra Lekarskich w Warszawie, kierownik Oddziału; prof. dr M. Bulska; dyrektor Instytutu Gruźlicy; prof. dr Janina Misiewicz; dyrektor I.M. i S.K.L.; prof. dr W. Hartwig) Warszawa,
ul. Orzechowska 3/2.

(OVARI~~S~~, neoplasms
clin. diag., value in malignant tumors (Pol))

GORAYSKI, Kazimierz, USZYCKA, Krystyna

Late results of suturing for prevention of cervical rupture following labor. Gin.polska 29 no.1:15-18 Jan-Feb 58.

1. I Kliniki Polonictwa i Chorob Kobiecych A.M. w Warszawie.
Kierownik Kliniki; prof. dr med. A. Szyzewicz i z Oddzialu Polonicko-
Ginekologicznego Instytutu Gruslicy w Warszawie. Kierownik Oddzialu:
prof.dr. M. Bulska.

(CERVIX, UTERINE, rupt.
in labor, prev. by suturing, indic. & results (Pol))
(LABOR, compl.
cervical rupt., prev. by suturing, & results (Pol))

SOPYLO, Krystyna; USZYCKA, Krystyna; KAMINSKI, Zdzislaw; KAFUSCINSKI,
Olgierd

A case of hetero-topical chorionic epithelioma (chorionepithelioma
ectopicum). Gruzlica 27 no.5:439-446 My '59.

1. Z Oddzialu IV Gruzlicy Pluc. Kierownik: doc.dr W. Jaroszewicz
z Oddzialu Ginekologicznego, Kierownik: prof.dr M. Serini-Bulska;
z Zakladu Patologii. Kierownik: prof.dr S. Chodkowska i z Zakladu
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